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SUBJECT

Precision Instruments for Nautical Purposes

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(LISTED BELOW)

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SUPPLEMENT TO  
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1. Attached are (a) a report on the research and development of precision instruments for nautical and oceanographic purposes and (b) a report on the meeting of the Specialists Committee on ships' precision instru-ments.

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GERMANY (Russian Zone)

Naval

Research and Development of precision instruments  
 for nautical and oceanographical purposes.

1. Conference on production of nautical instruments.

On 24th August there was a conference at the ASKANIA Werk in BERLIN/TELTOW of technical experts of the VVB (Mechanik Fachkommission) concerning the production and development of various precision instruments for nautical purposes. The following firms are involved and were represented at this conference :-

- (a) RFT Funkwerk, KÖPENICK : Comrades LAMBRECHT,  
 " STROBELT & HUTTMANN
- (b) RFT Glühlampenwerk, PLAUE : Comrade HELBIG.
- (c) RFT Projekt, Abt. Schiffbau : Comrade SCHWANT.
- (d) SHD, BERLIN : Comrades MANRY, SCHÄFFER W.
- (e) Schiffswerft, WISMAR : Comrade HEIDER.
- (f) General Dir. Schifffahrt : Comrade SCHULZE.
- (g) Forschungsanstalt f. Schifffahrt Abt. Seezeichen :  
 Comrade MUSCH.
- (h) VVB Fischwirtschaft : Comrade MUGGE.
- (i) VVB-MEWA, ZWICKAU : Comrade FRIPAN.
- (j) VVB - Präzisionsmechanik, FREIBERG : Comrade PETZOLD.
- (k) WVBG AWTOWELO : Comrade ZENNER.
- (l) ELFA-Werk, ELSTERWERDE : Comrade KUGLER.
- (m) PFZ, BERLIN : Comrade KREY.
- (n) GASELAN, VEB, BERLIN : Comrade BURKHARDT.
- (o) Seefahrtsschule, WUSTROW : Comrade STEINFATT.
- (p) Wasserstrassenamt, STRALSUND : Comrade PETERSHEN.
- (q) VW Schiffslaternenwerk, UCKERMÜNDE : Comrade GERHARDT.
- (r) Warnowerft : Comrade MAHNKE.
- (s) ASKANIA, TELTOW : Comrades BEHRMANN, RAMCKE.

2. In addition to the above, the following firms  
 are also involved, but were not represented :

(a) Ministerium für Maschinenbau

- (i) Precision Instruments and Optical Dept.
- (ii) Shipbuilding Dept.
- (iii) Acc. Dept.

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- (b) Navigational Equipment Dept. of VVB, DRESDEN.
- (c) Central Planning Commission (Technical Research).
- (d) VVB Hochseefischerei, ROSTOCK.
- (e) Vereinigt. Glashütter UHRENS.
- (f) Wasserstrassenhauptamt, ROSTOCK.
- (g) Volkswerft, STRALSUND.
- (h) VVB Hochseeschiffbau, WARNEMUNDE.
- (i) VVB Fischwirtschaft, SASSNITZ.
- (j) VEB Fischfang, SASSNITZ.
- (k) WTB Gerätebau, BERLIN.
- (l) Directorate of "Seepolizei" School, PAROW.
- (m) Chef des Lotsenwesens, ROSTOCK.
- (n) VVB, RFT, LEIPZIG.
- (o) VVB, GÜTEKONTROLLE, ROSTOCK.
- (p) Messgerätewerk, QUEDLINBURG.
- (q) RFT, TB, ROSTOCK.
- (r) RFT, FKA. Proj. Abt. Schiffbau.
- (s) MfM HV: Schiffbau.
- (t) Staatssekr. Nahrung u. Genuss.
- (u) Carl ZEISS, JENA.

3. Following types of equipment, their production and development were discussed :

(a) Photo-magnetic-Compass (Fotomagnet-Kompass)

- (i) Use of this type of compass with some photo-repeaters (Fotozellenabnehmer) was discussed in preference to the installation of several magnetic compasses.
- (ii) SHD is being requested to state the need for FM-compass lay-outs (FM Kompassanlage).
- (iii) "FREIBERGER Präzisionsmechanik", is placing an order for development of these with RFT Funkwerk & ASKANIA.

(b) Bearing Compass (Induktions Kompass).

A bearing compass is going to be developed for the SHD in the NEIMEGT magnetic observatory.

(c) Spherical Compass (Kugelkompass).

The spherical compass has been ordered by the Seepolizei. ASKANIA is getting into touch with SCHOTT-JEN. to find out whether compass gimbals (?) (Kugelkalotten) for this type can be produced.

/ (a) ...

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d) Compasses for Life-boats.

- (i) FREIBERGER P.M. has proposed a small liquid compass.
- (ii) One normal boat-compass is not considered suitable for this purpose for various reasons.

e) Mechanical sounding machines.

- (i) ASKANIA intends to use the same smaller winches for sounding machines of both sizes.
- (ii) The Soviet Ministry of Fisheries is asked for approval.

(f) Gyro-compass (Kreiselkompass-anlage)

- (i) The Seepolizei asked that the development of gyro-compasses be speeded up by using the old "Konstruktionsunterlagen".
- (ii) Comrade LAMBRECHT explained that the new type of compass was to be constructed on the lines of the "Anschutzkompass".
- (iii) RFT Funkwerk KOPENICK are to take all possible steps to speed up the development.
- (iv) The first one will not be ready till March 1953. It will then be tested in the laboratory and on board.
- (v) Newly developed gyro-compasses are not available at present, but a high-speed engine (Schnellläufer) to the old design of 30,000 revs/min. lasting 30 hours, is to be developed by VEM and also a low-speed engine (Langsamläufer) of 15,000 revs/min.

4.

Voltage for ships and shipyards.

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- (a) While the clear-view screens were discussed, the question of voltage for their motor was raised.
- (b) It was stated that shipyards cannot be limited to only one voltage (Spannung) and consequently both 110 V. D.C. and 220 V. A.C. were ordered.
- (c) D.C. or A.C. for ships - then this question was raised, especially whether the shipbuilders in general could not transfer from D.C. to A.C.
- (d) ASKANIA and RFT Funkwerk, KOPENICK are compiling a report on the voltages which are required for their equipment in an attempt to bring about the standardization of voltages used on ships.

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GERMANY (Russian Zone)

Naval ~~X~~ Economic

Meeting of the Specialists committee on Ships'  
precision instruments.

1. The meeting of "Fachkommission Feinmechanische Schiffsausrüstung u. Seebefeuerung" was held at VVB R.F.T. in LEIPZIG on 9 August 51.

2. Those present were :

Comrade THOMAS .. ..	VVB Mechanik, DRESDEN.
" BEHRMANN. .. ..	ASKANIA, TELTOW.
" THOMSON. .. ..	VEB Fischfang, SASSNITZ.
" GERHARDT .. ..	Schiffslaternenwerk, UCKERMUNDE.
" MÜLLER .. ..	VVB ROSTOCK, Gütekontrolle
" PIEPER .. ..	ASKANIA Erprobungsstelle, STRALSUND.
" KREY .. ..	PFZ, BERLIN.
" SCHAFER .. ..	SHD, BERLIN.
" KRESS .. ..	WSHS, ROSTOCK.
" PETERSHEN .. ..	Wasserstrassenamt, STRALSUND.
" KREBS .. ..	VVB RFT, LEIPZIG.
" BOHM .. ..	IKA Batteriefabrik, WORBIS.
" STEINFATT .. ..	Seefahrtsschule, WUSTROW.
" PETZOLD .. ..	Freiberger Präz. Mech.
" HELBIG .. ..	RFT Glühlampenwerk, PLAUEN.
" HANSEN .. ..	RFT Fernmeldekabel - u.
i.v. SCHWANT .. ..	Anlagenbau.
" LAMBRECHT .. ..	RFT Funkwerke, KOPENICK.
" TRAUTMANN .. ..	Messgerätekwerk, QUEDLINBURG.
" HÜRTLING .. ..	"
" SPRINGMANN .. ..	GASELAN, BERLIN.
" HACKEBELL .. ..	VVB RFT, LEIPZIG.
" KLEWITZ .. ..	STRALSUND, Am Boddenufer.
" LEHMANN .. ..	IKA Berliner Batterie u.
	Elementefabrik.

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4. Agenda. \* The only accepted point on the agenda was : "The drawing up of a programme of development of the work of this FK for 1952".

Other proposed items were rejected.

5. "ASKANIA" Programme. The "ASKANIA" programme as discussed at the 16th meeting of FUK I was recommended again with the following alterations :-

- (a) Course-recorder (plotting-table? -"Kursschreiber")
- (b) "Kursselbststeuerungsanlage" ('GEORGE'?).
- (c) Further development of new types of the engine-room telegraphs. 10.000 DM required.

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6. "Messgerätekwerk", QUEDLINBURG : .. ..

New undertaking : clockwork ? (8 days run) "Kommandoschreiber"  
..... 6.000 DM ..... 2.000 ..... Total : 8.000 DM.

7. "Schiffslaternenwerk", UCKERMUNDE:

Newly taken on : Fog-horns ("Tyfone") with hand pump device

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8. "Mess- und Zeichengerätebau, LIEBENWERDA.

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"Hohenrechenschieber" . . . . 20.000 DM ... 3.000 DM ... 23.000DM.

A sample has been ordered from the Navigation School, WUSTROW.

9. Proposals by the scientific adviser to the State Planning Committee meeting of 13.7.51.

The Committee took the following attitude to these proposals :

- (a) Echo-sounding machine.

To be developed as "Echograph" for shallow water (0-10 m.). Recently taken up by RFT Funkenwerk, KOPENICK.

- (b) "KREISEL" Sextant.

Being developed according to plan by AWTOWEIO, LICHTENBERG. In addition, a 'PENDEL' sextant is now being developed by 'Freiberger Präzisionsmechanik' and should be ready by the fourth quarter of 1951.

- (c) Log with a paddlewheel (Fahrtmessanlage mit Schaufelrad).

The demand for this type of log to be installed through the ship's bottom has been turned down as being too inconvenient and unsafe.

- (d) 'Flussbettprofilmessgerät.'

These will be automatically included in the development of the echo-sounding machine for depth of 0-10 m.

- (e) Fire-alarms.

No further development is necessary as adequate types of devices are already available.

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- (f) Defective buoys.

Comrade PETERSHEN (STRALSUND) mentioned that 2 buoys marking the channel to SWINEMUNDE have recently ceased to function and a ship ran into one of them. He asked that greater care should be taken over these buoys. CASELAN to take the matter up.

- (g) W/T equipment for fishing craft.

The proposals of the comrades in the SASSNITZ fishing industry re W/T set, radio spare parts etc. have already been taken into consideration.

It was explained that spare parts for W/T sets were lacking. VVB RFT was requested to cope urgently.

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